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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/707,869	01/20/2004	Kuo-Kaung Keng	12048-US-PA	1868
31561	7590	01/05/2006	EXAMINER	
JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE 7 FLOOR-1, NO. 100 ROOSEVELT ROAD, SECTION 2 TAIPEI, 100 TAIWAN				BORKOWSKI, ROBERT
ART UNIT		PAPER NUMBER		
		2181		
DATE MAILED: 01/05/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>
	10/707,869	KENG, KUO-KAUNG
	Examiner Robert Borkowski	Art Unit 2181

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) Responsive to communication(s) filed on 20 January 2004.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) Claim(s) 1-11 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-11 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on 20 January 2004 is/are: a) accepted or b) objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
|  | 6) <input type="checkbox"/> Other: _____                                    |

## DETAILED ACTION

### ***Specification***

### ***Claim objections***

1. Claim 7 is objected to because of the following informalities:

As to claim 7, line 11 it appears to the examiner that the “n” is misspelled and it should be changed to –an–.

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-4 and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by “Delkin PicturePAD”.

As to claim 1, “Delkin PicturePAD” discloses a portable micro-control device for inserting a plurality of input/output slave devices (page 2 second and third paragraph, page 13 picture showing elements), the micro-control device comprising:

a viewer for displaying an output data (page 2 lines 1-8, page 13 picture shows “Color LCD Screen” element);

an input device for receiving a work command signal (page 13, top picture element “control & navigation button”);

a power supply (page 10, two paragraphs below “Rechargeable Battery”, the picture shows a battery connected to the device) for providing power to the micro-control device; and

a controller coupled to the viewer and the input device (page 13 picture shows list of elements), wherein the controller at least comprises a plurality of input/output ports (page 13 picture shows “CompactFlash CF/2 & IBM Microdrive Slot” element) for connecting with the input/output slave device once the input/output slave devices are inserted into the micro-control device (page 2 third paragraph, and picture showing partially inserted slave device), and operates on the data stored inside the input/output slave devices according to a work command signal (page 2 bottom picture, page 3 first paragraph).

As to claim 2, “Delkin PicturePAD” discloses wherein the input/output ports are universal serial bus (page 4 first paragraph, the picture at the top shows USB port).

As to claim 3, “Delkin PicturePAD” discloses wherein the viewer comprises a liquid crystal display (page 2 first paragraph, page 13 picture shows “Color LCD Screen” element).

As to claim 4, “Delkin PicturePAD” discloses wherein the input device has a set of buttons (page 13 picture shows “Control & Navigation Button” element) including an

"up" button, a "down" button, a "right" button, a "left" button, and at least an "enter" button.

As to claim 6, "Delkin PicturePAD" discloses wherein the standard operation includes copying, transferring, backing up, deleting or formatting the data stored inside the input/output slave device (page 2 second and third paragraph, picture shows operation menu, page 3 first paragraph, page 8 first paragraph).

4. Claims 7-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Tan, Kee, Chew et al. (WO 02/063451 A1).

As to claim 7, Tan, Kee, Chew et al. discloses a controller for a portable micro-control device, comprising:

a power module for providing electrical power ( page 10 line 35 thru page 11 line 7, Fig. 1 element 133);

a plurality of input/output ports for connecting with a plurality of input/output slave devices (page 13 lines 29-36, Fig. 1 elements 107, 129, 119, 134, 139);

a mini-root hub coupled to the input/output ports for transmitting the data stored inside the input/output slave devices (page 13 lines 29-36, Fig. 1 element 112);

a local buffer module coupled to the mini-root hub for holding some of the data temporarily (page 15 line 26, Fig. 1 element 117);

an output controller for driving a viewer (Page 12 lines 29-32, Fig. 1 element 121);

an input controller for receiving a work command signal from an input device (Page 13 lines 4-6, Fig. 1 element 123); and

a processor (Fig. 1 element 102) coupled to the output controller (Fig. 1 element 121), the input controller (Page 13 lines 4-6) and the local buffer module (Fig. 1 element 117), wherein the processor performs an operation on the data stored inside the input/output slave device according to the work command signal (Page 21 lines 23-26).

As to claim 8, Tan, Kee, Chew et al. discloses wherein the input/output ports are universal serial bus ports and the mini-hub supports the universal serial bus (Fig. 1 element 131).

As to claim 9, Tan, Kee, Chew et al. discloses wherein the mass data transmits in a bulk mode (Page 10 lines 13-33).

As to claim 10, Tan, Kee, Chew et al. discloses wherein the input/output ports include serial ATA ports (Page 11 lines 22-37, Fig. 1 element 115).

As to claim 11, Tan, Kee, Chew et al. discloses wherein the local buffer module is connected to an external memory device (Fig. 1 elements 103, 112, 117).

### ***Claim Rejections - 35 USC § 103***

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over "Delkin PicturePAD" in view of Tan, Kee, Chew et al. WO 02/063451).

As to claim 5, "Delkin PicturePAD" does not disclose wherein after first device has been inserted into the input/output ports, the controller determines if the first device matches the input/output standard, then determines if the first device receives any power, then sets the initialization value of the first device, then assign a memory address of the first device, then set the state configuration of the first device and finally determines if the first device is successfully connected.

Tan, Kee, Chew et al. discloses wherein after first device has been inserted into the input/output ports, the controller determines if the first device matches the input/output standard, then determines if the first device receives any power, then sets the initialization value of the first device, then assign a memory address of the first device, then set the state configuration of the first device and finally determines if the first device is successfully connected (Page 15 line 7 thru page 16 line 36).

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified "Delkin PicturePAD" to include wherein after first device has been inserted into the input/output ports, the controller determines if the first device matches the input/output standard, then determines if the first device receives any power, then sets the initialization value of the first device, then assign a memory address of the first device, then set the state configuration of the first device and finally determines if the first device is successfully connected (Page 15 line 7 thru page 16 line 36).

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified "Delkin PicturePAD" by the teaching of Tan, Kee, Chew et al. because including memory initialization steps to tell the CPU to power on the circuitry to the removable memory element would adapt removable storage devices to exchange data with the host (Page 4 line 35 thru page 5 line 8 of Tan, Kee, Chew et al.).

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent No. 5,941,965 to Moroz et al. discloses a portable docking station for coupling a portable computer to a plurality of peripheral devices.

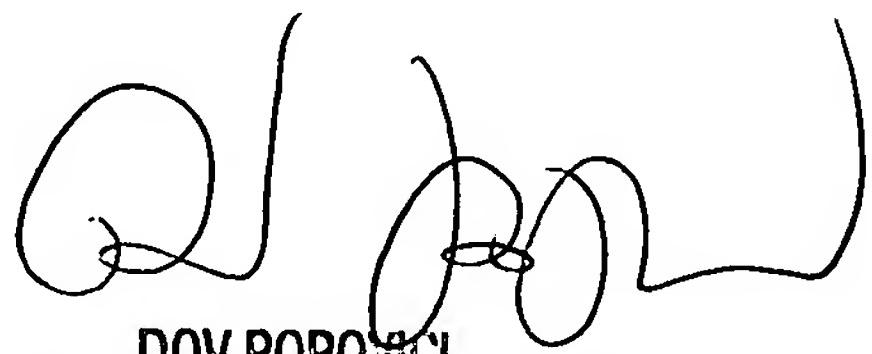
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Borkowski whose telephone number is 571-272-8626. The examiner can normally be reached on Monday - Friday 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on 571-272-4083. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Robert Borkowski  
Art Unit 2181  
December 8, 2005



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